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ms	1R	Technical Repo	ort HPL-2003-156.	Hewlett	ANOLIS, Bounds o -Packard Company, 03/HPL-2003-156.p	, Palo Alto	ication Cost , CA, July 2	for QoS, 4, 2003.		
mi	15	Lili QIU, Venka Server Replica	ata N. PADMANAN s, INFOCOM, 200	IABHAN	and Geoffrey M. V	OELKER, C	On the Placer	ment of Web		
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PATENT APPLICATION

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mr	2Q	Raj TEWARI ar	nd Nabil R. ADAM,	Distribu	ited File Allocation v	with Consistency Constraints, 1992.				
mit	2R	Arun VENKATA Placement in a	run VENKATARAMANI, Phoebe WEIDMANN, and Mike DAHLIN, Bandwidth Constrained acement in a WAN, 2001.							
mo	2\$	IM IFVY Ont	he Scale and Perfo nposium on Operat	rmance	of Cooperative Web	CARDWELL, Anna KARLIN, and Henro Proxy Caching, Proceedings of the wah Island, SC, pages 16-31, ACM	<u>—</u> у			
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, 100		< http://arxiv.org/PS_cache/cs/pdf/0207/0	20/028.pai>						
M	3R	P. KRISHNAN, Danny RAZ, and Yuval SHAVITT, The Cache Location Problem, IEEE/ACM Transactions on Networking, Volume 8, Number 5, Pages 568-582, ACM Press, New York, NY, October 2000.							
M;	38	Magnus KARLSSON, Christos KARAMANO Evaluating Peplica Placement Algorithms, Company, Palo Alto, CA, August 16, 200 < http://www.hpl.hp.com/techreports/200	DLIS, and Mallik MAHALINGAM, A Framework for Technical Report, HPL-2002-219, Hewlett-Packard 2. 12/HPL-2002-219.pdf>						
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PATENT APPLICATION

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OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

Ms	5Q	Samy MAHMOUD and J. S. RIORDON, Optimal Allocation of Resources in Distributed Information Networks, ACM Transactions on Database Systems, Volume 1, Number 1, pages 66-78, ACM Press, New York, NY, March 1976.					
MI	5R	Mark S. DASKIN and Susan H. OWEN, Pa Models, Presentation, International Sympo June, 23-29, 1999.	rtial Covering P-Center and Partial Covering Set Covering sium on Location Decisions (ISOLDE VIII), Portugal,				
ma	58	Susan Hesse OWEN and Mark S. DASKIN, Strategic Facility Location: A Review, Volume 111, ssue 3, pages 423-447, European Journal of Operational Research, Elsevier Science B.V., Amsterdam, Netherlands, 1998.					
EXAMIN	IER	er R. Holden	DATE CONSIDERED 12/20/05				
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PATENT APPLICATION

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ms	6Q	Lawrence W. I ACM Computing York, NY, June	ng Surveys (CSUR)	FOSTI , Volur	ER, Comparative Moone 14, Number 2, Pa	dels of ages 2	the File Assignme 87 - 313, ACM Pr	ess, New	
MI	6R	I pages 46-62.	AIRE, Facility Locat Chapter 3 and Page ast-Anglia, Norwic	es 175	timization and Coope -184, Bibliography, S 1998.	erative School	Games, Ph.D. The of Information Sy	esis, stems,	
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